

WHAT IS CLAIMED:

- add AI
- 09886977-062501
1. A multi-spectral product for use as target or identification and marking means, said product is configured as sandwiched structure suitable for simulating or marking of various objects, said sandwiched structure comprising
 - 5 a rear layer, carrying the structure,
 - a front layer, covered by two-dimensional pattern rendering the simulated object visually detectable and
 - an intermediate layer, overlapping with at least a portion of the front layer, said intermediate layer featuring thermal signature cue of the object,
 - 10 wherein said front layer is made of a discontinuous material which enables detection of said thermal signature cue and its recognition in darkened conditions, while preserving possibility for recognizing the simulated object in visible light.
 2. The product as defined in claim 1, in which said front layer is made of
 - 15 supple meshed fabric.
 3. The product as defined in claim 2, in which said meshed fabric is made of knitted polyester.
 4. The product as defined in claim 1, in which said net is made of high-density polyethylene.
 - 20 5. The product, as defined in claim 1, in which said intermediate layer comprises low emissivity thermal coating.
 6. The product, as defined in claim 5, in which said thermal coating is defined by heat reflection of about 0.7 and emissivity of about 0.3.
 7. The product, as defined in claim 1, in which said layers are attached to
 - 25 each other in side-by-side relationship.
 8. The product, as defined in claim 1, which is provided with fastening means suitable for securing thereof on a support structure.
 9. The product as defined in claim 1, wherein said rear layer comprises lightweight polymeric material having sufficient strength to carry the structure
 - 30 and does not absorb water.

BEST AVAILABLE COPY

10. The product as defined in claim 1, which comprises a target means, suitable for simulating of various military or civilian objects.

11. The product as defined in claim 1, which comprises an identification and marking means.

5 12. The target device, as defined in claim 1, wherein said front intermediate and rear layers are made of polymeric material joined to form a unitary structure; said front layer comprising a polyester or polyethylene fabric with a plurality of substantially elliptically shaped holes;

10 said intermediate layer comprising a polyester sheet having at least one surface coated with a low emissivity thermal coating formed of a plurality of metallic layers interspersed with polyester; and said rear layer comprising a strong, lightweight, polymeric material having sufficient strength to carry the superposed layers which also does not absorb water.

15 13. The target device, as defined in claim 10, wherein said intermediate layer comprises a plurality of aluminum layers, the emissivity of each layer being about 0.04-0.05, the top aluminum layer being coated with a low emissivity lacquer, the total thickness of said intermediate layer being about 24 microns.

20

25

30

BEST AVAILABLE COPY